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CINE VCLX CHARGER

Owner's Manual

7595-0328 Rev D

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STANDARD FEATURES

- Full InterActive technology including six simultaneous charge termination systems, Balance and Rejuvenation modes, and LifeSaver Maintenance mode.
- Wide range mains input compatibility (100-240 VAC 50-60Hz) automatically adapts to any mains source worldwide.
- Red and Green LED's for charge status.

The unit was packaged at the factory to arrive intact at its destination. If there is any damage to the packaging or the unit when received, please notify the carrier immediately.

SAFEGUARDS

POWER SOURCES: This unit was designed to operate at mains voltages from 100 to 240 Volts AC, 50-60Hz.

IMPORTANT: When powering charger using a generator, the generator must produce a sine wave or a modified sine wave output, otherwise the charger may be damaged.

RISK OF ELECTRICAL SHOCK: Refer servicing to qualified service personnel.

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

GROUNDING/EARTHING

IMPORTANT WARNING: THIS APPARATUS MUST BE EARTHED.

To ensure safe operation, the three pin plug supplied must be inserted only into a standard three-pin power point that is effectively grounded through the normal household wiring. Extension cords used with the equipment must be three-conductor and be correctly wired to provide connection to earth ground. Improperly wired extension cords are a dangerous electrical hazard.

The fact that the equipment operates satisfactorily does not imply that the power point is properly grounded and that the installation is completely safe. If any doubt exists about the correct grounding of the power point, consult a qualified electrician.

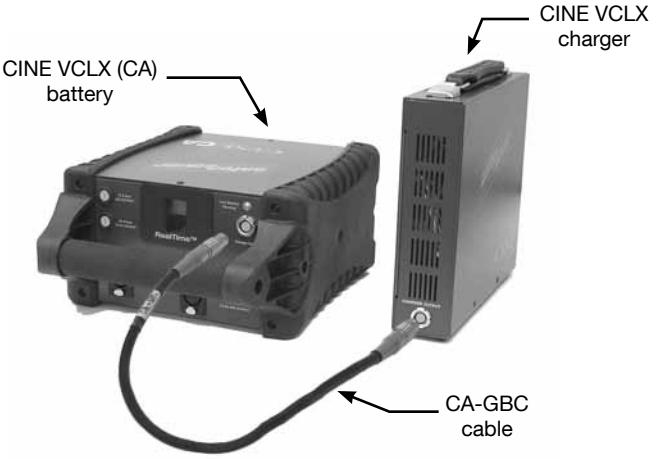
IMPORTANT: The wires in this main lead are colored in accordance with the following code:

Green and Yellow	Earth
Blue	Neutral
Brown	Live

OPERATION

CHARGING

Simply plug the CINE VCLX Charger into the CINE VCLX (CA) battery via the CA-GBC cable. As with all Anton/Bauer chargers, charging is automatic. Charge time is approximately 7 hours. The CINE VCLX (CA) battery is ready for use once ALL four charge status GREEN LEDs are lit on the charger.



APPLICATIONS

This charger is only designed to charge the CINE VCLX (CA) battery. This charger incorporates the exclusive Anton/Bauer InterActive communication between battery and charger, which allows the charger to identify the cell packs and determine the precise charge routine for that cell pack under the prevailing conditions.

This information is communicated to the charger by the battery and is incorporated, through specialized programming and algorithms to optimize the charging of this DIGITAL battery.

THREE STAGE CHARGING METHODOLOGY

In general, the CINE VCLX Charger will deliver a **three stage charge routine** to each battery.

1. **Stage One** will deliver a charge matched to the capabilities of the battery. During this stage, six separate cutoff methods are in operation, simultaneously, ensuring the fastest, safest charge for that battery.

TCO – Temperature cutoff that stops the Stage one charge precisely when a temperature indicative of full charge is reached.

Dt/dT – a microprocessor based algorithm that measures a rise in temperature over a specific time, very accurately indicating full charge. This method is also the recommended method for charging Ni-Mh technology;

-ΔV- A method to determine the end of a stage one charging by identifying a characteristic "reverse slope" of a Ni-Cd cell. Since this characteristic can be disguised by the age, temperature and the number of the cells in a battery, it can never be employed alone;

OPERATION CONTINUED

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CCO – This method requires the identification of the particular battery size (capacity) and chemistry, an exclusive Anton/Bauer Logic Series feature. The charger determines the maximum charge time for the particular battery and uses this information to ensure that overcharge conditions are avoided.

FUL – This determination is made when a fully charged DIGITAL battery is returned to the charger within specified parameters and immediately indicates a fully charged condition, without additional verification.

TEMPERATURE COMPENSATED VCO – for NiMh series ofbatteries. Similar to a VCO, however, only operates within certain temperature parameters.

2. Stage Two charging is a BALANCING or "equalize" mode which calculates each battery pack type to offset any imbalance of the battery's cells, created by unequal self discharge or any capacity mismatch of the individual cells in the pack. This stage can vary in duration from zero to as much as 16 hours, depending on the condition of the battery. A battery will typically leave Stage Two in 2-4 hours under average operating conditions.

3. Stage Three charging is the Anton/Bauer exclusive Lifesaver maintenance mode. This patented pulse routine keeps batteries fully charged, free from self-discharge – indefinitely – without damaging heat associated with so-called "trickle charge".

LED INDICATIONS

LED INDICATION	MEANING
Red and Green Alternating	Indicates that the charger is evaluating the battery and/or communicating, battery, loading battery parameters and determining the appropriate charge routine. A low voltage (<11V) battery will cause this indication to continue until the battery is "rejuvenated" to a safe charging voltage.
Steady Red	Indicates that the battery is being held by the charger to stabilize an out-of-range temperature condition.
Flashing Red	Indicates that the battery is currently charging.
Steady Green	Indicates that the battery is READY for use

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 f the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This equipment has been approved by one or more agencies. All changes and/or modifications not expressly approved by Anton Bauer, Inc. could void the users' warranty and authority to operate this equipment. There are not serviceable parts in this equipment.

SPECIFICATIONS

Dimensions:	10 ¼ x 2 ¼ x 8 ½
Weight:	4.2 lbs
Input Voltage:	100-240 VAC, 50-60 Hz

CHARGER LIMITED WARRANTY

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This one (1) year limited warranty for the product specified in this document is given by Anton/Bauer, Inc. (“Anton/Bauer”), 14 Progress Drive, Shelton, Connecticut 06484. If you have any questions regarding product applications, product specification, or to obtain warranty service on this or any Anton/Bauer product, contact the Anton/Bauer Customer Support Group or the company at the address above.

IMPORTANT: WARRANTY REGISTRATION CARD MUST BE MAILED WITHIN 30 DAYS OF PURCHASE TO QUALIFY FOR THIS WARRANTY. Warranty registration, including the serial numbers of Anton/Bauer chargers used with this Product, must be supplied to Anton/Bauer. Anton/Bauer will warranty the Product only against defects in material and workmanship for a period of one (1) year from the date of purchase, in accordance with the terms set forth below and then, only if the Product is used only in conjunction with compatible batteries manufactured and sold by Anton/Bauer.

THIS PRODUCT MAY ALSO BE REGISTERED ON LINE AT www.antonbauer.com.

This warranty shall be effective only if Anton/Bauer receives notice of such defects in materials or workmanship during the period of the warranty. The liability of Anton/Bauer hereunder is expressly limited to a claim for repair or replacement of the Product or as otherwise stated herein at Anton/Bauer’s sole discretion. Notice of any claim under this warranty shall be delivered to Anton/Bauer during the period of the warranty and the Product should be returned with its packaging promptly, at purchaser’s expense, to an Anton/Bauer Customer Support Center or to the address above. Upon receipt of the Product and a record of your compliance with the conditions of this warranty, Anton/Bauer will repair or replace the Product and return it to you, or issue a credit, as applicable.

THIS WARRANTY DOES NOT APPLY TO AND IS VOID IN THE CASE OF DEFECTS OR DAMAGE RESULTING FROM ACCIDENTS, DISASTER, NEGLECT, MISUSE, IMPROPER INSTALLATION, IMPROPER OR UNAUTHORIZED SERVICE OR MAINTENANCE, UNAUTHORIZED REPLACEMENT PARTS OR ATTACHMENTS; OR DYSFUNCTION OR MALFUNCTION OF, OR CAUSED BY, ANY OTHER PRODUCT OR DEVICE. Misuse includes any use of the Product in other than its intended application, including the use of any batteries or accessories not manufactured by and/or specified by Anton/Bauer. This warranty does not cover, and Anton/Bauer assumes no responsibility for, any equipment or devices used in conjunction with the Product.

ANTON/BAUER DISCLAIMS ANY LIABILITY FOR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY WRITTEN OR IMPLIED WARRANTY OF THE PRODUCT. UNDER NO CIRCUMSTANCES WILL ANTON/BAUER BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

This Warranty is to be construed and enforced in accordance with the law of the State of Connecticut, including the provisions of the Uniform Commercial Code as adopted and from time to time amended in the State of Connecticut, and not the Convention for the International Sale of Goods. This choice of Connecticut law is exclusive of any Connecticut law that would require reliance on any law foreign to Connecticut. Should any action of law or in equity be brought by any person under this Warranty, such action shall be brought only in the United States District Court for the District of Connecticut, or in any Superior Court in Fairfield County, Connecticut, USA. Some states do not allow limitations on how long a warranty lasts, so the time period limitation herein may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may have other legal rights, which vary from state to state.

Use of unauthorized equipment in conjunction with Anton/Bauer products constitutes misuse under our warranties and may limit or void those warranties. Anton/Bauer does not authorize, condone, recommend, or otherwise assume any liability or responsibility resulting from the use of any battery, charger or accessory made by Anton/Bauer manufacture with any battery, charger or accessory not manufactured, produced or sold by Anton/Bauer. Anton/Bauer only authorizes the use of original Anton/Bauer product with this product. Use only original Anton/Bauer equipment with this product.

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